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<p>(21) International Application Number: PCT/US92/03371</p> <p>(22) International Filing Date: 24 April 1992 (24.04.92)</p> <p>(30) Priority data: 693,515 30 April 1991 (30.04.91) US</p> <p>(71) Applicant: THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).</p> <p>(72) Inventors: PANANDIKER, Rajan, Keshav ; 1321 Williamsburg Rd., Cincinnati, OH 45215 (US). THOEN, Christiaan, Arthur, Jacques, Kamiel ; Boskweithofstraat 4, B-9120 Haasdonk (BE). LENOIR, Pierre, Marie, Alain ; Seefeldstrabe 127, CH-8008 Zurich (CH).</p>		<p>(74) Agent: REED, T., David; The Procter & Gamble Company, Ivorydale Technical Center, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).</p> <p>(81) Designated States: AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH (European patent), CI (OAPI patent), CM (OAPI patent), CS, DE (European patent), DK (European patent), ES (European patent), FI, FR (European patent), GA (OAPI patent), GB (European patent), GN (OAPI patent), GR (European patent), HU, IT (European patent), JP, KP, KR, LK, LU (European patent), MC (European patent), MG, ML (OAPI patent), MN, MR (OAPI patent), MW, NL (European patent), NO, PL, RO, RU, SD, SE (European patent), SN (OAPI patent), TD (OAPI patent), TG (OAPI patent).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>
<p>(54) Title: BUILT LIQUID DETERGENTS WITH BORIC-POLYOL COMPLEX TO INHIBIT PROTEOLYTIC ENZYME</p> <p>(57) Abstract</p> <p>Included are liquid detergent compositions containing alphahydroxyacid builder, anionic and/or nonionic surfactant, proteolytic enzyme, second enzyme, and a mixture of certain vicinal polyols and boric acid or its derivative. The equilibrium constants for the boric/polyol reaction are K_1 between about 0.1 and 400 l/mole and K_2 between 0 and about 1000 l²/mole².</p>		